

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: August 14, 2002, 10:46:14 ; Search time 35.44 Seconds

(without alignments)
75.917 Million cell updates/sec

Title: US-09-785-059-1

Perfect score: 135

Sequence: 1 RVIRVORACRAIRHVRIRIQRIL 28

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283138 seqs, 96089334 residues

Total number of hits satisfying chosen parameters: 283138

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR:71:*

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	112	83.0	861	1 VCLJLV	env polypeptide pr
2	102	75.6	357	2 S21990	env polypeptide pr
3	102	75.6	846	1 VCLJND	env polypeptide pr
4	101	74.8	851	2 S33985	env polypeptide pr
5	101	74.8	856	1 VCLJH3	env polypeptide pr
6	101	74.8	856	1 VCLJVL	env polypeptide pr
7	101	74.8	856	1 VCLJ3W	env polypeptide pr
8	99	73.3	854	2 S13288	env polypeptide pr
9	98	72.6	358	2 S22002	env polypeptide pr
10	98	72.6	853	2 S54384	env polypeptide pr
11	97	71.9	358	2 S22000	env polypeptide pr
12	97	71.9	358	2 S70417	env polypeptide pr
13	97	71.9	852	2 T12016	env polypeptide pr
14	94	69.6	357	2 S22006	env polypeptide pr
15	94	69.6	855	1 VCLJ2A	env polypeptide pr
16	92	68.1	852	1 VCLJBR	env polypeptide pr
17	90	66.7	357	2 S21994	env polypeptide pr
18	86	63.7	357	2 S22004	env polypeptide pr
19	86	63.7	859	1 VCLJMN	env polypeptide pr
20	85	63.0	358	2 S21998	env polypeptide pr
21	84	62.2	856	1 A44963	env polypeptide pr
22	84	62.2	861	1 VCLJSC	env polypeptide pr
23	83	61.5	843	1 H44001	env polypeptide pr
24	83	61.5	868	1 VCLJH4	env polypeptide pr
25	82	60.7	357	2 S21996	env polypeptide pr
26	82	60.7	357	2 S21992	env polypeptide pr
27	78	57.8	847	2 T09448	env polypeptide pr
28	78	57.8	847	2 S13289	env polypeptide pr
29	77	57.0	859	2 T01672	env polypeptide pr

30	77	57.0	861	1 VCLJKB	env polypeptide pr
31	75	55.6	855	1 VCLJZR	env polypeptide pr
32	70	51.9	854	1 VCLJST	env polypeptide pr
33	64	47.4	863	2 A53034	env polypeptide pr
34	58	43.0	877	2 S49197	env polypeptide pr
35	56	41.5	859	2 S24571	env polypeptide pr
36	54.5	40.4	864	1 VCLJG4	env polypeptide pr
37	49.5	36.7	153	2 F86331	env polypeptide pr
38	49	36.3	855	2 A45713	env polypeptide pr
39	49	36.3	858	1 VCLJG2	env polypeptide pr
40	48.5	35.9	1571	2 T13711	env polypeptide pr
41	48	35.6	420	2 AB0098	env polypeptide pr
42	48	35.6	456	2 C82785	env polypeptide pr
43	48	35.6	877	2 C46356	env polypeptide pr
44	47.5	35.2	268	2 AF2470	env polypeptide pr
45	47	34.8	101	2 S22454	env polypeptide pr

ALIGNMENTS

RESULT 1

VCLJLV

env polypeptide precursor - human immunodeficiency virus type 1 (isolate LAV-1a)

N:Alternate names: coat polypeptide

C:Species: human immunodeficiency virus type 1, HIV-1

A:Note: host Homo sapiens (man)

C:Date: 17-May-1985 #sequence_revision 17-May-1985 #text_change 16-Jul-1999

C:Accession: A03975

R:Main-Hodson, S.; Sonigo, P.; Danos, O.; Cole, S.; Alizon, M.

Cell 40, 9-17, 1985

A:Title: Nucleotide sequence of the AIDS virus, LAV.

A:Reference number: A90866; MUID:85099333

A:Accession: A03975

A:Molecule type: DNA

A:Residues: 1-861 <MAT>

A:Cross-references: GB:K02013; NID:G326417; PIDN:AAB59751.1; PID:G326424

C:Genetics:

A:Gene: env

C:Superfamily: type E retrovirus env polypeptide

C:Keywords: AIDS; capsid protein; coat protein; glycoprotein; immunodeficiency; poly

F:1-30/Domain: signal sequence #status predicted <SIG>

F:31-516/Product: exterior membrane glycoprotein #status predicted <EXT>

F:517-861/Product: transmembrane glycoprotein #status predicted <TM>

F:88,136,141,146,161,165,191,202,239,246,267,281,294,300,337,344,361,391,397,402, 616,621,630,642,679,755,821/Binding site: carbohydrate (Asn) (covalent) #status pre

Query Match 83.0%; Score 112; DB 1; Length 861;

Best Local Similarity 85.7%; Pred. No. 1e-07;

Matches 24; Conservativity 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 RVIRVORACRAIRHVRIRIQRIL 28

DB 833 RVLEVVGACRAIRHVRIRIQRIL 860

RESULT 2

S21990

env polypeptide protein gp120/gp41 - human immunodeficiency virus type 1

C:Species: human immunodeficiency virus type 1, HIV-1

A:Variety: Isolate 20

C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 01-Dec-2000

C:Accession: S21990; S70423

R:Steuier, H.; Storch-Hagenlocher, B.; Wildemann, B.; Hacke, W.

submitted to the EMBL Data Library, July 1991

A:Description: Distinct populations of HIV-1 in blood and cerebrospinal fluid as dete

A:Reference number: S21990

A:Accession: S21990

A:Molecule type: DNA

A:Residues: 1-357 <STEL>

A:Cross-references: EMBL:X61357; NID:G60175; PIDN:CAA43626.1; PID:G60176

R:Steuier, H.; Storch-Hagenlocher, B.; Wildemann, B.

AIDS Res. Hum. Retroviruses 8, 53-59, 1992

A:Title: Distinct populations of human immunodeficiency virus type 1 in blood and cerebrospinal fluid

A:Reference number: S70417; MID:92244209

A:Accession: S70423

A:Status: Preliminary

A:Molecule type: DNA

A:Residues: 1-332, 'X', 334-357 <STE2>

A:Cross-references: EMBL:X61357; NID:g60175; PIDN:CAA43626.1; PID:g60176

C:Superfamily: type E retrovirus env polypeptide

Query Match

Best Local Similarity 75.6%; Score 102; DB 2; Length 357;

Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

1 RVIRVQACRAIRHIVRIRROGLRRL 28

DB 329 RVIEVQACRAIRHIVRIRROGLRRL 356

RESULT 3

env polypeptide precursor - human immunodeficiency virus type 1 (isolate NDK)

N:Alternate names: coat polypeptide

C:Keywords: AIDS; capsid protein; coat protein; glycoprotein; immunodeficiency; polypeptide

F:1-29/Domain: signal sequence #status predicted <SIG>

F:30-501/Product: coat protein gp120 #status predicted <CP1>

F:502-846/Product: coat protein gp41 #status predicted <CP2>

F:847-920/Domain: transmembrane #status predicted <TM>

F:921-999/Domain: transmembrane #status predicted <TM2>

F:1000-1000/Domain: transmembrane #status predicted <TM3>

F:1001-1001/Domain: transmembrane #status predicted <TM4>

F:1002-1002/Domain: transmembrane #status predicted <TM5>

F:1003-1003/Domain: transmembrane #status predicted <TM6>

F:1004-1004/Domain: transmembrane #status predicted <TM7>

F:1005-1005/Domain: transmembrane #status predicted <TM8>

F:1006-1006/Domain: transmembrane #status predicted <TM9>

F:1007-1007/Domain: transmembrane #status predicted <TM10>

F:1008-1008/Domain: transmembrane #status predicted <TM11>

F:1009-1009/Domain: transmembrane #status predicted <TM12>

F:1010-1010/Domain: transmembrane #status predicted <TM13>

F:1011-1011/Domain: transmembrane #status predicted <TM14>

F:1012-1012/Domain: transmembrane #status predicted <TM15>

F:1013-1013/Domain: transmembrane #status predicted <TM16>

F:1014-1014/Domain: transmembrane #status predicted <TM17>

F:1015-1015/Domain: transmembrane #status predicted <TM18>

F:1016-1016/Domain: transmembrane #status predicted <TM19>

F:1017-1017/Domain: transmembrane #status predicted <TM20>

F:1018-1018/Domain: transmembrane #status predicted <TM21>

F:1019-1019/Domain: transmembrane #status predicted <TM22>

F:1020-1020/Domain: transmembrane #status predicted <TM23>

F:1021-1021/Domain: transmembrane #status predicted <TM24>

F:1022-1022/Domain: transmembrane #status predicted <TM25>

F:1023-1023/Domain: transmembrane #status predicted <TM26>

F:1024-1024/Domain: transmembrane #status predicted <TM27>

F:1025-1025/Domain: transmembrane #status predicted <TM28>

F:1026-1026/Domain: transmembrane #status predicted <TM29>

F:1027-1027/Domain: transmembrane #status predicted <TM30>

F:1028-1028/Domain: transmembrane #status predicted <TM31>

F:1029-1029/Domain: transmembrane #status predicted <TM32>

F:1030-1030/Domain: transmembrane #status predicted <TM33>

F:1031-1031/Domain: transmembrane #status predicted <TM34>

F:1032-1032/Domain: transmembrane #status predicted <TM35>

F:1033-1033/Domain: transmembrane #status predicted <TM36>

F:1034-1034/Domain: transmembrane #status predicted <TM37>

F:1035-1035/Domain: transmembrane #status predicted <TM38>

F:1036-1036/Domain: transmembrane #status predicted <TM39>

F:1037-1037/Domain: transmembrane #status predicted <TM40>

F:1038-1038/Domain: transmembrane #status predicted <TM41>

F:1039-1039/Domain: transmembrane #status predicted <TM42>

F:1040-1040/Domain: transmembrane #status predicted <TM43>

F:1041-1041/Domain: transmembrane #status predicted <TM44>

F:1042-1042/Domain: transmembrane #status predicted <TM45>

F:1043-1043/Domain: transmembrane #status predicted <TM46>

F:1044-1044/Domain: transmembrane #status predicted <TM47>

C:Superfamily: type E retrovirus env polypeptide

Query Match

Best Local Similarity 74.8%; Score 101; DB 2; Length 851;

Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

1 RVIRVQACRAIRHIVRIRROGLRRL 28

DB 823 RVIEVQACRAIRHIVRIRROGLRRL 850

RESULT 5

env polypeptide precursor - human immunodeficiency virus type 1 (isolate HTLV-III, BH)

N:Alternate names: coat polypeptide

C:Keywords: AIDS; capsid protein; coat protein; glycoprotein; immunodeficiency; polypeptide

F:1-30/Domain: signal sequence #status predicted <SIG>

F:31-511/Product: coat protein gp120 #status predicted <CP1>

F:512-856/Product: coat protein gp41 #status predicted <CP2>

F:857-920/Domain: transmembrane #status predicted <TM>

F:921-999/Domain: transmembrane #status predicted <TM2>

F:1000-1000/Domain: transmembrane #status predicted <TM3>

F:1001-1001/Domain: transmembrane #status predicted <TM4>

F:1002-1002/Domain: transmembrane #status predicted <TM5>

F:1003-1003/Domain: transmembrane #status predicted <TM6>

F:1004-1004/Domain: transmembrane #status predicted <TM7>

F:1005-1005/Domain: transmembrane #status predicted <TM8>

F:1006-1006/Domain: transmembrane #status predicted <TM9>

F:1007-1007/Domain: transmembrane #status predicted <TM10>

F:1008-1008/Domain: transmembrane #status predicted <TM11>

F:1009-1009/Domain: transmembrane #status predicted <TM12>

F:1010-1010/Domain: transmembrane #status predicted <TM13>

F:1011-1011/Domain: transmembrane #status predicted <TM14>

F:1012-1012/Domain: transmembrane #status predicted <TM15>

F:1013-1013/Domain: transmembrane #status predicted <TM16>

F:1014-1014/Domain: transmembrane #status predicted <TM17>

F:1015-1015/Domain: transmembrane #status predicted <TM18>

F:1016-1016/Domain: transmembrane #status predicted <TM19>

F:1017-1017/Domain: transmembrane #status predicted <TM20>

F:1018-1018/Domain: transmembrane #status predicted <TM21>

F:1019-1019/Domain: transmembrane #status predicted <TM22>

F:1020-1020/Domain: transmembrane #status predicted <TM23>

F:1021-1021/Domain: transmembrane #status predicted <TM24>

F:1022-1022/Domain: transmembrane #status predicted <TM25>

F:1023-1023/Domain: transmembrane #status predicted <TM26>

F:1024-1024/Domain: transmembrane #status predicted <TM27>

F:1025-1025/Domain: transmembrane #status predicted <TM28>

F:1026-1026/Domain: transmembrane #status predicted <TM29>

F:1027-1027/Domain: transmembrane #status predicted <TM30>

F:1028-1028/Domain: transmembrane #status predicted <TM31>

F:1029-1029/Domain: transmembrane #status predicted <TM32>

F:1030-1030/Domain: transmembrane #status predicted <TM33>

F:1031-1031/Domain: transmembrane #status predicted <TM34>

F:1032-1032/Domain: transmembrane #status predicted <TM35>

F:1033-1033/Domain: transmembrane #status predicted <TM36>

F:1034-1034/Domain: transmembrane #status predicted <TM37>

F:1035-1035/Domain: transmembrane #status predicted <TM38>

F:1036-1036/Domain: transmembrane #status predicted <TM39>

F:1037-1037/Domain: transmembrane #status predicted <TM40>

F:1038-1038/Domain: transmembrane #status predicted <TM41>

F:1039-1039/Domain: transmembrane #status predicted <TM42>

F:1040-1040/Domain: transmembrane #status predicted <TM43>

F:1041-1041/Domain: transmembrane #status predicted <TM44>

F:1042-1042/Domain: transmembrane #status predicted <TM45>

F:1043-1043/Domain: transmembrane #status predicted <TM46>

F:1044-1044/Domain: transmembrane #status predicted <TM47>

F:1045-1045/Domain: transmembrane #status predicted <TM48>

F:1046-1046/Domain: transmembrane #status predicted <TM49>

F:1047-1047/Domain: transmembrane #status predicted <TM50>

F:1048-1048/Domain: transmembrane #status predicted <TM51>

F:1049-1049/Domain: transmembrane #status predicted <TM52>

F:1050-1050/Domain: transmembrane #status predicted <TM53>

F:1051-1051/Domain: transmembrane #status predicted <TM54>

F:1052-1052/Domain: transmembrane #status predicted <TM55>

